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# The Project X Physics Study

## Saturday 16 June 2012

### Neutron-antineutron oscillations - WH3NE Conjectorium (09:00-10:30)

- Conveners: Prof. Quigg, Chris; Young, Albert

time	title	presenter
09:00	Theoretical motivation for neutron-antineutron oscillations	
09:25	New processes at LHC and neutron-antineutron oscillations	GOGOLADZE, Ilia
09:40	Experimental searches for neutron-antineutron oscillations in nuclei	KEARNS, Ed
10:00	Neutron-antineutron oscillations vs nuclei stability	VAINSHTEIN, Arkady
10:15	Future neutron-antineutron intranuclear searches vs vacuum oscillations	KAMYSHKOV, Yuri

### Neutron-antineutron oscillations - WH3NE Conjectorium (14:00-15:30)

- Conveners: Prof. Quigg, Chris; Young, Albert

time	title	presenter
14:00	Neutron-antineutron oscillations with free neutrons	SNOW, W. M.
14:15	Leptogenesis and Fundamental Symmetries of Nature	CHEN, Mu-chun
14:35	Baryogenesis and neutron-antineutron oscillations	BABU, Ks
15:00	Skyrme suppression or enhancement of neutron-antineutron oscillations	STAVENGA, Gerben
15:15	Lattice calculations of neutron-antineutron matrix elements	BUCHOFF, Michael

# Monday 18 June 2012

## Neutron-antineutron oscillations: (joint with Large-area cost-effective detectors) - WH3NE, Conjectorium (11:00-12:30)

- Conveners: Prof. Quigg, Chris; Young, Albert

time	title	presenter
11:00	Overview of free neutron-antineutron search experiment at ILL in 1991	DUBBERS, Dirk
11:40	Overview of possible NNbarX configurations and staging	KAMYSHKOV, Yuri
12:10	Discussion	

## Neutron-antineutron oscillations: joint with Large-area, cost-effective detectors - WH3NE, Conjectorium (16:00-17:30)

- Conveners: Young, Albert; Prof. Kamyshkov, Yuri; Sanchez, Mayly; Prof. Quigg, Chris

time	title	presenter
16:00	Super-mirrors and neutron focusing	SHIMIZU, H.
16:30	Grooved moderator for N-Nbar-X	LIU
16:45	Cold and ultra-cold source R&D	LIU, C.-Y.
17:00	TPC tracker and magnetic shield for NNbar	BANERJEE, Sunanda

## **Tuesday 19 June 2012**

### **Neutron-antineutron oscillations - WH3SE, Conjectorium (09:00-18:00)**

- **Conveners: Prof. Quigg, Chris; Prof. Young, Albert**